

Name:

Date:

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PART A In the space on the left, write the letter of the term or phrase which **best** completes the statement or answers the question (1 mark each).

- _____ 1. Which of the following is not a natural phenomenon?
a. earthquakes
b. forest fires
c. volcanic eruptions
d. tsunamis
- _____ 2. Ecosystems where the soil is waterlogged for all or part of the year are called ...
a. swamps
b. marshes
c. wetlands
d. bogs
- _____ 3. A poisonous, odourless gas that comes from automobiles is ...
a. sulfur dioxide
b. DDT
c. oxygen
d. carbon monoxide
- _____ 4. If the pH of a solution is less than 7 the solution is ...
a. acidic
b. neutral
c. concentrated
d. basic
- _____ 5. Which of the following does not lead to flooding?
a. heavy rains
b. heavy snowpacks
c. high tides
d. over-fishing
- _____ 6. Describes the concentration of toxins as you go up trophic levels on the food chain.
a. bioaccumulation
b. biomagnification
c. degredation
d. heavy metal poisonous

- ___ 7. Which of the following is not a source of sulfur dioxide on Earth?
- a. volcanic eruptions
 - b. burning coal
 - c. asbestos in buildings
 - d. Copper smelting
- ___ 8. Soil erosion, soil pollution, and widespread disease among humans can be affected from ...
- a. habitat loss
 - b. invasive species
 - c. deforestation
 - d. flooding
- ___ 9. Which of the following doesn't cause tsunamis?
- a. earthquakes
 - b. blizzards
 - c. volcanic eruptions
 - d. landslides
- ___ 10. Knowledge reflecting human experience with nature gained over centuries is called ...
- a. scientific ecological knowledge.
 - b. traditional ecological knowledge.
 - c. ecological succession.
 - d. ecological research.

PART B In the space provided mark each of the following as true or false. (1 mark each)

- ___ 1. Radioactive wastes are stored underground and accumulate in consumers.
- ___ 2. DDT was used after and during World War II to kill mosquitoes carrying carcinogens.
- ___ 3. Deforestation occurs when trees are cut down and replaced.
- ___ 4. Mercury is used in thermometers.
- ___ 5. Avalanches are the movement of rock and snow masses on Earth's crust.
- ___ 6. Tsunamis can improve habitats by adding salt water to the ecosystem.
- ___ 7. Mountain pine beetles are having a major effect on the deciduous forests of B.C.
- ___ 8. It may take 500 years to create 25 mm of agricultural topsoil.
- ___ 9. Insects may play a major role in the natural succession of a forest.
- ___ 10. Overfishing is a natural phenomenon.

PART C In the space provided, match each term or phrase with the best definition. (1 mark each)

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|--------------------------|---|
| ___ 1. Lead | A. Using natural resources wisely now and for future use. |
| ___ 2. Sustainability | B. Concentrates pollutants in organisms at higher trophic levels. |
| ___ 3. Cadmium | C. Introduction of substances that are harmful to living things. |
| ___ 4. Biomagnification | D. Pollutants don't degrade and so build up inside organisms. |
| ___ 5. Bioaccumulation | E. Can result from the effects of water and wind erosion. |
| ___ 6. pH scale | F. Chemicals used to control insects, fungi, and plants. |
| ___ 7. Deforestation | G. A heavy metal found in batteries and computers. |
| ___ 8. Contamination | H. The clearing or logging of forests without replanting. |
| ___ 9. Pesticides | I. A heavy metal that is found in cigarettes. |
| ___ 10. Soil degradation | J. Measures the concentration of hydrogen ions in solution |

PART D Each of the following questions requires either a concise essay or a short answer.

1. What is the difference between bioaccumulation and biomagnification? (2 marks)

2. Name two heavy metals and one effect that each has on our ecosystems. (4 marks)

3. Explain why logging only 1% of BC's forests is so troublesome. (3 marks)
4. How have humans influenced wetlands over the past 100 years? (5 marks)
5. What are three positive and three negative results of resource exploitation? (6 marks)